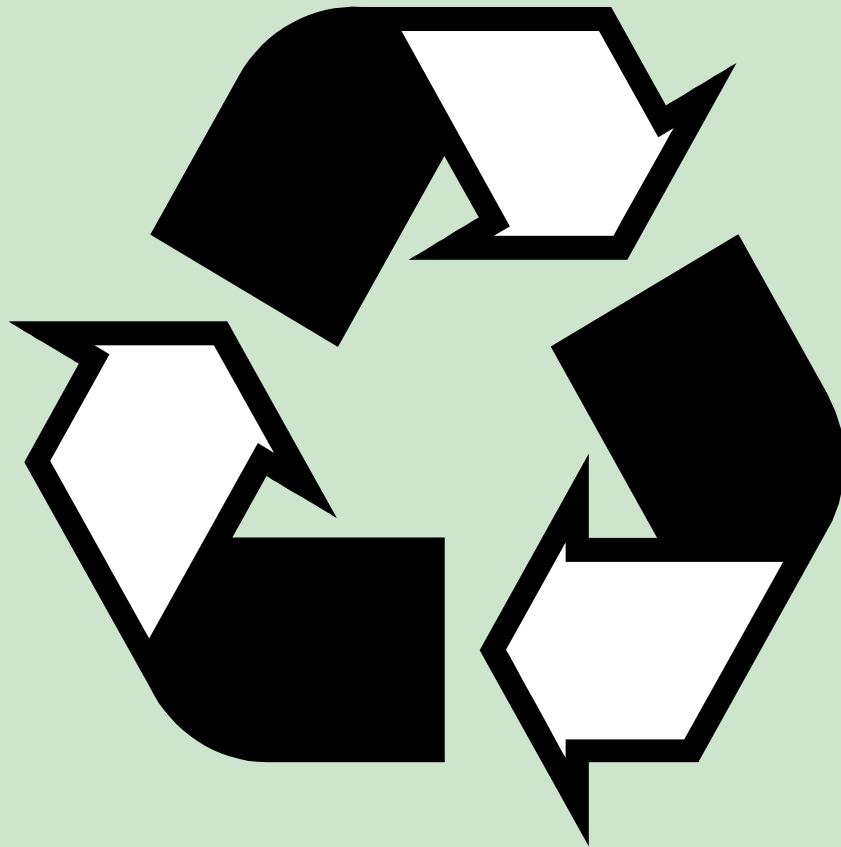


Minimizing Construction & Demolition Waste



Sixth Edition

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Solid Waste Management in Hawaii

Historically, Hawaii's primary way to manage solid waste has been disposal in landfills. With shortages of landfill sites and stricter federal government regulations (40 CFR 258 "Subtitle D") requiring a significant upgrade of waste disposal facilities, the State Legislature directed the Department of Health to evaluate solid waste management practices in Hawaii and develop a statewide plan. The result of the study was the



1991 Integrated

Solid Waste Management (ISWM) Plan.

The Plan is a comprehensive document focusing on reducing the generation of waste by moving away from conventional methods of waste disposal in landfills and incinerators. The three main waste reduction methods advocated in the Plan are source reduction, recycling and composting. The Plan called for statewide waste reduction goals of 25% by 1995, and 50% by year 2000. It was a guidance document which evaluated existing solid waste practices in the state and developed ways to move Hawaii toward sustainable waste management as a first priority and disposal as a final resort. It concluded that Hawaii had a need to plan for incineration with

energy recovery and landfilling, but that those efforts should not jeopardize current and future source reduction, recycling, and composting efforts.

Concurrent with the Plan, the legislature passed Act 324-91 which requires that the counties develop their own detailed ISWM Plans to insure the diversion of solid waste from landfills and incinerators. The State did achieve a waste diversion rate of 26.7% in 2001. We need a significant increase in recycling to meet the Environmental Protection Agency (EPA) goal of 35% goal by 2005. The EPA had a goal of 50% by the year 2000, but revised it to 35% by the year 2005, finding



that states need a

more realistic time frame to reach higher total waste reduction. Construction & Demolition (C&D) material is targeted for landfill diversion by the City & County

of Honolulu and the Neighbor Island counties because of the significant amount generated. Various county studies showed in 1995, over 30% of the waste generated (or 600,000 tons/year) was estimated to be C&D material.



Construction And Demolition Waste Management

Across the country, the volume of C&D waste is growing as older buildings are being demolished to make way for new ones. Over the last few years on Oahu, we've seen many major downtown and military structures torn down and replaced as we continue to increase urban densities. The majority of this material ends up in Oahu's landfills, but a significant amount is disposed of in a growing number of illegal dumps.

In Hawaii today, there is one privately owned C&D landfill at Nanakuli on the island of Oahu, and another on the island of Maui. The other major islands do not have C&D landfills. On these islands, C&D waste is being disposed at municipal solid waste (MSW) landfills. MSW landfills, in

contrast to C&D landfills, are more costly to construct and operate because they must comply with stringent federal regulations. Therefore, C&D waste that is disposed in MSW landfills consumes valuable disposal space.

As a result of the Integrated Solid Waste Management Plan, progress was made in implementing improved solid waste disposal methods which protect the environment. These improvements were necessary to comply with federal regulations imposed on the disposal facilities. If we are to become a sustainable society, Hawaii must work to divert waste from disposal. Let's examine some of the reasons for reducing our generation of C&D waste, and recycling what we generate.

Extending The Life Of Our Landfills

Landfill space in Hawaii is rapidly decreasing. As an island state, we have limited available land and no one wants a dump in their neighborhood. As previously mentioned, the State of Hawaii enacted legislation requiring that the counties develop policies aimed at reducing waste sent to landfills. To reach our goals, it is essential that the C&D waste stream is managed through source reduction, reuse, and recycling efforts. Fortunately, there can be considerable cost savings for construction

and demolition contractors who reduce or recycle those materials. These savings can increase as landfill capacity diminishes and disposal costs increase in coming years.

Unfortunately, as landfill costs increase, incidences of illegal dumping also rise. Illegal dumping sites with no health or environmental controls in place pose significant threats to public health and the environment. Establishing viable recycling options can help reduce the occurrence of illegal dumps.

Conserving Our Natural Resources

Construction, demolition and land clearing materials can be recycled into a number of useful products. Concrete and asphalt wastes can be crushed for use as aggregate base in road construction; metal can be sold as scrap to processors for recycling. Untreated wood and green wastes can be used as mulch or processed into compost;

new drywall scrap can be used to amend organic compost; and corrugated cardboard can be recycled into new cardboard packaging. All of these recycling efforts help to conserve natural resources, one of the primary goals of resource recovery.

Reducing Waste Hauling And Disposal Costs

If your construction, demolition, and land clearing materials are currently being sent to a landfill, your disposal costs may be unnecessarily high. The tip fees at C&D landfills are considerably less than those of the MSW landfills.

Transport costs are also another concern among contractors. Transporting materials to recycling processors permitted by the Department of Health, Solid Waste Section (586-4226) are estimated to be around \$75 per hour. The listings in this guide show many recycling options for C&D wastes. Many are located much closer to populated areas than the MSW and C&D landfills. Depending on the size of your project, your company may be able to save money through reduced hauling and avoided disposal costs.

In addition, many contractors already receive revenues from the sale of pre-sorted materials such as scrap metal and cardboard. Contractors can arrange to have bins provided and have source separated C&D materials hauled from construction sites. There are also processing firms with on-site crushers for recycling and reuse of concrete and asphalt. This eliminates hauling and disposal fees, and the contractor can avoid purchasing structural fill or aggregate. Some waste haulers may offer special services, at reduced fees, for clean, partially separated construction materials.

This guide shows how to reduce the volume of C&D debris going into landfills. It also provides information on the reduction, reuse and recycling of construction and demolition materials at the source.

What Is Construction And Demolition Waste?

CONSTRUCTION AND DEMOLITION (C&D) waste is defined as solid, largely inert waste resulting from the construction, repair, demolition, or razing of buildings, roads and other structures. The term also includes debris from the clearing of land for construction.

This waste stream includes, but is not limited to: concrete, brick, asphalt, gypsum, wood waste, roofing and roofing paper, glass, ferrous and nonferrous metals, soil, trees, and shrubs.

REDUCE, REUSE, RECYCLE

Diverting waste from our disposal facilities involves finding ways to reduce, reuse and recycle. There are many advantages and benefits to waste reduction. We protect our environment and economic resources. We use less raw materials and thereby less energy to extract or harvest them from our natural environment. We

reduce the need for expensive and environmentally damaging disposal options and we create a market for waste materials to be used for recycling. The following discussion will provide an overview of some alternatives to disposal for C&D waste.

Waste Reduction

For a successful C&D waste reduction program, we need to educate the public, businesses, developers, contractors, and architects to use less and still achieve success. When designers and builders understand the negative impact that waste has on the environment, and the positive impact they can make in their efforts to reduce waste, they can be more proactive.

Architects must think ecologically about design and should design to use less. There are a number of ways architects may consider when specifying a product in the design of a project:

- Does the design or construction process reduce waste?
- Do the products specified include recycled content?
- Does the project use locally available and often overlooked resources?
- Are the products or materials specified easily recyclable?
- Can the products or materials specified be easily reused or salvaged?

For additional information, review "Residential Construction Waste Management, A Builders Field Guide" by the National Association of Home Builders; or contact the Clean Hawaii Center (587-3802) or the Office of Solid Waste Management (586-4226).

The Re-use Concept: Materials Exchanges

Some materials can be separated and reused in their existing form at the site, or later by other businesses and organizations. High value items such as doors, windows, fixtures and equipment may be accepted by local non-profit organization for self-help projects. In addition some contractors have found outlets for scrap plywood and drywall. For example, the Aloha Shares Network (866) 542-2232 (toll free) can list your unwanted items on its computerized data base. Also, some non-profit organizations and businesses take used paint for

community beautification. By participating in a materials exchange, a company can improve its bottom line by reduced hauling and disposal fees, receive a tax deduction and help the community. Using a materials exchange requires advance planning. While many local organizations may be able to reuse your unwanted materials, the timing of your project and collection or drop off requirements must be addressed in advance. See the reusable building materials section at the end of this guide.

Waste Recycling

How about recycling? Take scrap lumber, which due to its size or condition cannot be reused, cut, press and glue it together into press board - you are recycling it. The wood fiber has gone through a remanufacturing process. Recycling requires energy and may have environmental implications when materials go through remanufacture. Therefore, reuse is generally preferred over recycling.

But recycling can provide significant benefits over making the product from virgin material. Today's waste entrepreneurs use heavy-duty, industrial materials. Current efforts in C&D waste reuse and recycling by Hawaii businesses include:

- Excavated Dirt: used for fill or topsoil.
- Excavated Rock: used for decorative walls or road base material.
- Non-Lead Based Painted Concrete: crushed and used for road base, backfill or sub-base for building construction.
- Asphalt concrete: crushed for use as aggregate, road base, or new asphalt concrete.
- Untreated Wood Waste: reused as pallets, or ground into mulch or biofuel.
- Green Waste: ground for use as mulch or for compost.
- Steel: processed for shipment to steel mills out of state.
- Cardboard: baled for shipment to paper mills out of state.

Managing C&D Waste: A Checklist

CONDUCT AN INFORMAL WASTE AUDIT

Determine the amounts, types, and time-frame for construction and demolition materials generated by your projects. Calculate any possible cost savings from reducing a portion of this waste, in terms of hauling and disposal cost avoidance.

REDUCE

Look at strategies to reduce construction and demolition waste volumes. Proper materials management practices may result in cost savings. Assure that precise estimates are made prior to purchase of materials, and that accurate measurements are made prior to cutting materials so that excess scrap and end cuts can be avoided.

Consider having materials pre-cut at lumber yards, using engineered wood products, steel framing, or other pre-manufactured components. Work with suppliers and subcontractors to minimize excess packaging and other non-essential material from being brought on site.

REUSE

Consider the potential for others to use the materials you normally discard. Consider planning ahead and calling Aloha Shares Network, Habitat for Humanity or other non-profit organizations to list such materials and/or arrange donations. This can provide your company with additional tax deductions. Conduct site pre-assessments for demolition projects to evaluate what materials can be salvaged for reuse, such as cabinets, architectural woodwork, light fixtures, and appliances.

RECYCLE

Investigate the companies listed in this guide that can recycle some of your construction and demolition waste from either source-separated or mixed loads. Compare the costs of recycling with the costs of disposal. Contact haulers. They may help you set up an effective separation program. Work with your subcontractors to keep recyclable scrap from being mixed with trash during clean-up.

EDUCATE EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS

Whatever waste reduction strategies you choose, it is crucial to educate and motivate employees and subcontractors for maximum participation. Emphasize that source reduction, reuse, and recycling is everybody's business.

Beginning a Construction and Demolition Recycling Program

The first step is to preassess the quantities and the composition of your waste; the time frame in which waste materials will be generated; and the amount of space available for separation of materials at the site.

Then with this information, you can begin to determine what wastes will be generated and if quantities will be significant enough to warrant source separation. Depending on the availability of storage and hauling, decisions can be made as to what materials to separate from the mixed wastes.

Of course, the more materials which are eliminated from the mixed wastes, the less material that must be hauled for disposal and the more money you can save.

C & D WASTE MANAGEMENT FACILITIES

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STATEWIDE - REUSABLE BUILDING MATERIALS FURNITURE, FIXTURES AND EQUIPMENT

ALOHA SHARES NETWORK		Services:
P.O. Box 880852	(866) 542-2232 (toll free)	A computerized materials exchange of new, used and recyclable building materials. List and request your materials online.
Pukalani, HI 96788	878-6666 (Maui)	
(mailing address)	241-6891 (Kauai)	
www.alohashares.org		
ANGEL NETWORK CHARITIES		Services:
5339 Kalanianaʻole Highway	377-1841	Accepts donations of appliances, furniture and household items which they donate to homeless families or for resale to the public
Honolulu, HI 96821	377-9790 (fax)	
APPLIANCE REBUILDERS, INC.		Services:
150 Hamakua Drive, Suite 4125	845-1388	Accepts and rebuilds used home appliances; will remove and haul appliances in bulk
Kailua, HI 96734	847-6087 (fax)	
BASEYARD HAWAII		Services:
50 Sand Island Access Road	842-0770	Accepts and restores new and used reusable construction goods
Honolulu, HI 96819	842-0780 (fax)	
(Past La Mariana Restaurant, to right of Honolulu Recovery)		
www.baseyard.com		

GOODWILL INDUSTRIES	2610 Kili Hau Street Honolulu, HI 96819 www.higoodwill.org	836-0313 833-4943 (fax) 961-0307 (Hilo)	Services: Accepts donations of small appliances and other household items
HABITAT FOR HUMANITY	2728 Huapala Street Honolulu, HI 96822 www.honoluluhabitat.org	988-9339 988-2498 (fax) 935-6677 (Hilo) 245-1996 (Kauai) 893-0334 (Kahului)	Services: Accepts donations of building materials for use in self-help housing projects
SALVATION ARMY	322 Sumner Street Honolulu, HI 96817 www.salvationarmyhawaii.org	522-8411 522-8492 (fax) 935-5531 (Hilo) 877-3074 (Kahului) 326-2330 (Kona) 245-2571 (Lihue)	Services: Accepts donations for resale of furniture and small appliances; call for pickup of larger items
OAHU - AGGREGATE			
AMERICAN HAULING	67-421 Farrington Highway Waipahu, HI 96797	637-3212 637-3202 (fax)	Services: Accepts and crushes uncontaminated reinforced concrete from their own jobs into fill
CONCRETE WASHOUT SYSTEMS HAWAII	86-70 Leihoku Street Waianae, HI 96792	262-4330 262-6605 (fax)	Services: Accepts uncontaminated concrete washout material
GRACE PACIFIC CORPORATION	Makakilo Upper Quarry www.gracepacificcorp.com	672-3545 672-3998 (fax)	Services: Accepts and crushes uncontaminated reinforced concrete into base course material
TAJIRI LUMBER, LTD.	1002 Puuwai Street Kapolei, HI 96707	841-2896 848-4847 (fax)	Services: Accepts and crushes uncontaminated reinforced concrete from their own jobs into fill
WEST OAHU AGGREGATE CO., INC.	87-1650 Paakea Road Waianae, HI 96792	847-6746 842-3470 (fax)	Services: Accepts and crushes uncontaminated/unpainted reinforced concrete into fill

OAHU - FERROUS METALS - STEEL

LENOX RESOURCES, INC. 91-185 Kalaeloa Blvd. Kapolei, HI 96707	682-5539 682-4923 (fax)	Services: Accepts and buys back ferrous metal
SCHNITZER STEEL HAWAII CORP. 91-056 Hanua Street Campbell Industrial Park Kapolei, HI 96707	682-5810 682-0604 (fax)	Services: Accepts, buys back and processes ferrous metal

OAHU - NON-FERROUS METALS - ALUMINUM, BRASS, COPPER, AND STAINLESS STEEL

C.M. RECYCLING, LLC 204 Sand Island Access Road Honolulu, HI 96819	842-6640 842-6733 (fax)	Services: Accepts, buys back and processes non-ferrous metal
HANS METALS INC. 94-170 Leokane Street Waipahu, HI 96797	676-4797 671-0729 (fax)	Services: Accepts and buys back non-ferrous metal
ISLAND RECYCLING, INC. 91-140 Kaomi Loop Kapolei, HI 96707 www.islandrecycling.com	845-1188 842-0907 (fax)	Services: Accepts and buys back aluminum and non-ferrous metal
LENOX RESOURCES, INC. 91-185 Kalaeloa Blvd. Kapolei, HI 96707	682-5539 682-4923 (fax)	Services: Accepts and buys back aluminum and non-ferrous metal
OKUDA METALS, INC. 1804 Kahai Street Honolulu, HI 96819	845-6856 842-0249 (fax)	Services: Accepts and buys back aluminum and non-ferrous metal
REYNOLDS RECYCLING, INC. 99-1160 Iwaena Street Aiea, HI 96701-3258 www.reynoldsrecycling.com	487-2802 486-7753 (fax)	Services: Accepts and buys back aluminum and non-ferrous metal

OAHU - WOOD AND GREENWASTE

MENEHUNE GREEN, LLC DBA HAWAIIAN EARTH PRODUCTS, LTD. 91-400 Malakole Road Kapolei, HI 96707 www.menehunemagichawaii.com	682-5895 682-0762 (fax) 261-5877	Services: Accepts clean green waste for processing into “Menehune Magic” organic soil amendments
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KANEOHE GENERAL SERVICES, INC. 47-630 Kamehameha Highway 456-9292 Kaneohe, HI 96744	Services: Accepts clean green waste
LAIE TREATMENT WORKS (HAWAII RESERVES, INC.) 55-510 Kamehameha Highway 293-9201 Kapolei, HI 96707 293-6456 (fax)	Services: Accepts clean green waste for processing
LEEWARD WHOLESALE NURSERY 96-075 Farrington Highway 677-0906 Waipahu, HI 96707 671-3082 (fax)	Services: Accepts clean green waste from their own jobs for processing
WINDWARD GREEN MANAGEMENT, LTD DBA HAWAIIAN EARTH PRODUCTS 897 Kalanianaʻole Hwy 682-4246 199 Kapaa Quarry Road 682-4248 (fax) Kaneohe, HI 96744	Services: Accepts clean green waste
OAHU – CARDBOARD	
HONOLULU RECOVERY SYSTEMS 50D Sand Island Access Road 842-3602 Honolulu, HI 96819-6356 841-2438 (fax)	Services: Accepts, picks up and processes cardboard
ISLAND RECYCLING, INC. 91-140 Kaomi Loop 845-1188 Kapolei, HI 96707 842-0907 (fax) www.islandrecycling.com	Services: Accepts and processes cardboard
LENOX RESOURCES, INC. 91-185 Kalaeloa Blvd. 682-5539 Kapolei, HI 96707 682-4923 (fax)	Services: Accepts cardboard
OAHU - PALLETS	
Menehune Green, LLC dba Hawaiian Earth Products, Ltd. 91-400 Malakole Road 682-5895 Kapolei, HI 96707 682-0762 (fax) 261-5877 www.menehunemagichawaii.com	Services: Accepts uncontaminated, untreated/unpainted used wooden pallets and uncontaminated, untreated/unpainted wood

OAHU - APPLIANCES

SCHNITZER STEEL HAWAII CORP.

91-056 Hanua Street 682-5810
Campbell Industrial Park 682-0604 (fax)
Kapolei, HI 96707

Services:

Accepts/buys back and processes white goods and ferrous metals (Freon/CFCs and used oil must be removed)

REFRIGERANT RECYCLING, INC.

91-220 Komohana Street 682-1555
Campbell Industrial Park 682-1904 (fax)
Kapolei, HI 96707

Services:

Accepts and processes white goods. Removes Freon/CFCs and used oil

OAHU - C & D LANDFILL

PVT LAND COMPANY

87-2020 Farrington Highway 668-4561
Waianae, HI 96792 668-1368 (fax)
www.pvtland.com

Services:

Accepts and landfills construction and demolition site materials, including: concrete, hollow bituminous concrete, asphalt pavement, wood, glass masonry, flooring, siding plaster, dirt, rock, stumps, boulders and brush

KAUAI

GARDEN ISLE DISPOSAL

2666 Niumalu Road 245-2372
Lihue, HI 96766 245-2435 (fax)

Services:

Accepts cardboard

HEART & SOUL ORGANICS, LLC

6020 Koolau Road 828-1007
Lihue, HI 96766

Services:

Accepts green waste

KAUAI NURSERY & LANDSCAPING

3-1550 Kaumualii Highway 245-7747
Lihue, HI 96766 245-9289 (fax)

Services:

Accepts green waste

KAUAI AGGREGATES

Halewili Road/Quarry Road, 632-0697
Kalaheo

Services:

Accepts and processes unpainted, uncontaminated concrete

PUHI METALS RECYCLING

Puhi Road 632-0697

Services:

Accepts and processes scrap metal and white goods. Removes Freon/CFCs and used oil

REYNOLDS RECYCLING		<i>Services:</i>
Along Kanoa Street near Hale Kauai, Nawiliwili Harbor	245-7233	Accepts non-ferrous scrap
At Kapahi, 5675 B Kawahau Road behind Menehune Food Mart	754-8985	
KEKAHA LANDFILL		<i>Services:</i>
6900 Kaumualii Highway in Kekaha	337-9213	Accepts and landfills construction and demolition site materials, including: concrete, hollow bituminous concrete, asphalt pavement, wood, glass masonry, flooring, siding plaster, dirt, rock, stumps, boulders and brush
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MAUI		
MAUI DISPOSAL COMPANY, INC.		<i>Services:</i>
2000 Mokulele Highway Wailuku, HI 96793	242-7999	Accepts, picks-up and processes cardboard
MAUI EARTH COMPOSTING		<i>Services:</i>
At corner of Hanson Road and Pulehu Road, in Puunene	877-0403	Accepts and processes green waste
Piilani Hwy, next to Kihei Wastewater Reclamation Facility		
POHAKULEPO RECYCLING, LLC DBA HAWAIIAN CEMENT		<i>Services:</i>
0.2 miles West of Honoapi'ilani Highway, Wailuku	871-7004	Accepts and processes uncontaminated/unpainted concrete and green waste
MAUI EKO SYSTEMS		<i>Services:</i>
Next to the Central Maui Landfill	572-8844 877-7589 (fax)	Accepts and processes green waste and uncontaminated, untreated/unpainted wood waste
REYNOLDS RECYCLING		<i>Services:</i>
261 Dairy Road (Across Pier 1) Kahului, HI 96732	264-0309	Accepts non-ferrous scrap at both locations
140 Hobron Ave. Kahului, HI 96732	385-1867	

SOS METALS ISLAND RECYCLING		<i>Services:</i>
Central Maui Baseyard	280-8844	Accepts and processes white goods and scrap metal. Removes Freon/CFCs and used oil
Nakele Pl. in Puunene www.sosmetalsmaui.com	(800) 618-8830	
DE COITE C & D LANDFILL		<i>Services:</i>
At corner of Pi'ilani Highway and Honoapi'ilani Highway	871-7496 877-6412 (fax)	Accepts and landfills construction and demolition site materials, including: concrete, hollow bituminous concrete, asphalt pavement, wood, glass masonry, flooring, siding plaster, dirt, rock, stumps, boulders and brush
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HAWAII		
ATLAS RECYCLING		<i>Services:</i>
30 Makaala Street Hilo, HI 96720	935-9328	Accepts cardboard, pallets and non-ferrous metals; operates drop-off locations in select areas
74-5599 Pawai Place Kailua-Kona, HI 96740	329-6868	
BIG ISLAND SCRAP METAL		<i>Services:</i>
At Hilo Transfer Station Leilani Street past Railroad Ave.	961-8942	Accepts and processes white goods and scrap metal. Removes Freon/CFCs and used oil
At Kailua Transfer Station Old Kona Landfill at Kealakehe		
BUSINESS SERVICES HAWAII		<i>Services:</i>
16-630 Kipimana Street Keeau, HI 96749	959-1436	Accepts cardboard
COUNTY OF HAWAII/EKO SYSTEMS, INC.		<i>Services:</i>
Old Dump Road Kailua-Kona Convenience Center	961-8083	Accepts and processes green waste and uncontaminated/unpainted pallets
Ammunitions Road South Hilo Convenience Center		
MAUNA LANI RESORT ASSOC.		<i>Services:</i>
68-150 Ho'ohana Street Kohala Coast	885-0681	Accepts and crushes green waste

WEST HAWAII CONCRETE 74-4925 Queen Kaahumanu Highway Kailua-Kona, HI 96740	881-7809	Services: Accepts and crushes uncontaminated reinforced concrete into base course material
WEST HAWAII LANDFILL Near corner of Queen Kaahumanu Highway and Pu'u Pohaka Road	886-8059	Services: Accepts and landfills construction and demolition site materials, including: concrete, hollow bituminous concrete, asphalt pavement, wood, glass masonry, flooring, siding plaster, dirt, rock, stumps, boulders and brush
HILO LANDFILL Along Railroad Ave. in Hilo	961-8635	Services: Accepts and landfills construction and demolition site materials, including: concrete, hollow bituminous concrete, asphalt pavement, wood, glass masonry, flooring, siding plaster, dirt, rock, stumps, boulders and brush

For further information on
construction and demolition recycling, please contact:

Department of Health
Office of Solid Waste Management
www.hawaii.gov/health/environmental/waste/sw/index.html
(808) 586-4226 fax (808) 586-7509